

Date: Thu, 30 Jun 94 04:30:21 PDT
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #210
To: Ham-Equip

Ham-Equip Digest Thu, 30 Jun 94 Volume 94 : Issue 210

Today's Topics:

 : Mobile VHF rigs: Best for VHF packet? Should I buy new or used?
 How much does a repeater cost?
 Info on the Kenwood TH-78A
 Kenwood mic free for good home
 Opinions on batteries?
 Radio Shack 6 Meter Rig?
 Timewave DSP
 Who makes largest capacity nicad AA cell? (2 msgs)
 Yaesu FT-470 Clone?

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 30 Jun 1994 00:44:18 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!spool.mu.edu!news.clark.edu!
netnews.nwnet.net!serval.net.wsu.edu!spookey!kjones@network.ucsd.edu
Subject: : Mobile VHF rigs: Best for VHF packet? Should I buy new or used?
To: ham-equip@ucsd.edu

As a service to myself and others using this newsgroup I have kindly
volunteered myself for the following task:

I am interested in getting into VHF packet radio as well as having a VHF rig
I can take in my car. I am a fairly poor graduate student, so I am looking
for the best buy/most features/for low \$. (Thats what everyone wants right?!)

I feel that there are others like me that read this newsgroup as well, so,

to conserve bandwidth, I am volunteering to compile the answers to the following questions and post them back here in this forum for all to read.

So email me your thoughts, flames, kudos, (mobile VHF radios (Hee... Hee... I am kidding! (message required for the humor impaired :) :) :) etc... on the following questions and on July 15, I'll compile/summarize your responses and post them back to the net.

*** I will acknowledge contributors in the summary unless requested not to ***

Questions:

- 1) Should I totally avoid mobile VHF rigs because they are cursed and evil?
- 2) Should I bite a bullet and buy a new VHF mobile rig? If so, who do you think is the best mail order company to buy from?
- 3) Should I look around for a used rig?
- 4) Should I buy a used rig from a commercial company like AES?
- 5) What do you think is the best value VHF mobile rig?
- 6) What do you think is the best VHF mobile rig?

Thanks for your input and time... Be looking for a response on July 15!

Kent Jones
KC7BCU
kjones@eeecs.wsu.edu

Date: 30 Jun 94 01:47:53 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!noc.near.net!news.delphi.com!
BIX.com!hamilton@network.ucsd.edu
Subject: How much does a repeater cost?
To: ham-equip@ucsd.edu

File this under, "I'm just curious."

I know all the major vendors like Icom make repeaters, but they aren't usually listed in the various ham catalogs, leading me to suspect (clever fellow that I am :-) that they must be pretty darned expensive.

But how expensive? And are features like voice synthesis (or is

it just electronically stored) messages telling the callsign or that you've just timed out the repeater extra-cost add-ons?

I've heard that with only 600KHz difference between input and output, the filtering to allow simultaneous transmit and receive is also quite typically very expensive. One friend tells me that mechanical filters the size of an oil drum are sometimes used!

Some of you, I know, have set up some pretty sophisticated repeaters. Can you share some of your experience, please? What sort of costs were involved? Where'd you buy your equipment and how'd you choose it? How much power are these things typically running? Obviously, location is important, but just how important does it tend to be in practice? What'd you do about coordinating your frequency? Any sort of ole war stories would be most appreciated.

Regards,

Doug Hamilton KD1UJ hamilton@bix.com Ph 508-358-5715
Hamilton Laboratories, 13 Old Farm Road, Wayland, MA 01778-3117, USA

Date: Wed, 29 Jun 1994 15:39:35 -1000
From: ihnp4.ucsd.edu!swrinde!elroy.jpl.nasa.gov!netline-fddi.jpl.nasa.gov!nntp-server.caltech.edu!mustang.mst6.lanl.gov!newshost.lanl.gov!transitory14.lanl.gov!user@network.ucsd.edu
Subject: Info on the Kenwood TH-78A
To: ham-equip@ucsd.edu

My son is thinking about buying a new Kenwood TH-78A handheld. I would appreciate any information anyone could send me. Thanks. My E-Mail address is DBroxtan@lanl.gov

Thanks again, Dave

Date: Wed, 29 Jun 1994 22:01:22 -0400
From: ihnp4.ucsd.edu!swrinde!gatech!news-feed-1.peachnet.edu!news.duke.edu!godot.cc.duq.edu!nntp.club.cc.cmu.edu!cantaloupe.srv.cs.cmu.edu!bb3.andrew.cmu.edu!andrew.cmu.edu!postman+@network.
Subject: Kenwood mic free for good home
To: ham-equip@ucsd.edu

I have a hand microphone for Kenwood HF rigs in excellent condition (from the days when I used to own Kenwood).

It is available for the asking. Please e-mail me and I will send it to you. You can send me whatever postage stamps you see on the envelope because that what I will have paid to mail man. If I recieve more then I request, I will do e-nee-mee-nee.... :-).

Also because of my SO (who else has the power get away with such darstic restrictions :-), I probably am getting out of ham-radio for few years (I just got rid of my FT1000D) so expect more goodies for free or nominal price in future.

Keep that my Kenwood is better then your Yaesu is better then your Icom war going :-).

Tanvir
WN1P/3

Date: Thu, 30 Jun 1994 00:48:48 GMT
From: rit!isc-newsserver!ultb!jdc3538@cs.rochester.edu
Subject: Opinions on batteries?
To: ham-equip@ucsd.edu

>In article <hamilton.772822046@BIX.com>, hamilton@BIX.com (hamilton on BIX) writes:

>
> Also, I notice there are folks listed in, e.g., the HRO catalog that
> offer big shoulder-strapped sealed lead-acid batteries with really
> large capacity (well, compared to a regular NiCd). Anyone bought one
> and got some opinions? They look kind of neat but I suspect the weight
> might get old pretty quick...

>
> Regards,
> Doug Hamilton KD1UJ hamilton@bix.com Ph 508-358-5715
> Hamilton Laboratories, 13 Old Farm Road, Wayland, MA 01778-3117, USA

Pick up a couple of 4 amp-hour 6-volt gel-cells at the next hamfest, and a small camera bag. Works great, and the price is right.

73...Jim N2VNO

Date: 29 Jun 94 22:52:00 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
newsxfer.itd.umich.edu!zip.eecs.umich.edu!yeshua.marcam.com!news.kei.com!

babbage.ece.uc.edu!cccbbs!scott.momberg@network.ucsd.edu
Subject: Radio Shack 6 Meter Rig?
To: ham-equip@ucsd.edu

TO: jduffy@aol.com

J>.@SUBJECT:Radio Shack 6 Meter Rig?
J>.@N FROM :jduffy@aol.com
J>.@N MSGID :<2updk8\$agu@search01.news.aol.com>
J>N From: jduffy@aol.com (JDuffy)
J>Newsgroups: rec.radio.amateur.equipment
J>Subject: Radio Shack 6 Meter Rig?
J>Date: 28 Jun 1994 10:55:04 -0400
J>Message-ID: <2updk8\$agu@search01.news.aol.com>

J>Heard a rumor that the Rat Shack was going to be introducing a 6
J>meter rig very shortly. Has anyone else heard this? Most of all,
J>is the rumor the truth?

Hey there!!

If you find out about it, let me know too...

How 'ya doin?

73's Scott

```
+-----+
| Internet:  scott.momberg@cccbbs.cincinnati.oh.us |
| Packet:   wd8cab@wd8buy.#cin.oh.usa.na          |
| Compuser: 74676,112                             |
+-----+
```

. CmpQwk 1.40m #963 . Nobody ever forgets where he buried the hatchet.

Date: 30 Jun 1994 01:52:18 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!usenet.ins.cwru.edu!news.ysu.edu!
yfn.ysu.edu!ap451@network.ucsd.edu
Subject: Timewave DSP
To: ham-equip@ucsd.edu

In a previous article, w5robert@blkbox.COM (Robert Wood) says:

>OK, Anyone have comments on the DSP units by
>Timewave, and did QST ever carry a write up on them???
>73's Robert w5robert@blkbox.com

I have a Timewave DSP-9+ and I love it. Unlike the Radio Shack (albeit less expensive) unit, this random noise reduction REALLY works! Things are much quieter. I think the May or June CQ did a review (I can't remember which month), and the reviewer said the only strange thing about it was getting used to the sound of nothingness on CW and then hearing a signal whoop out of nowhere. As the reviewer said, and I agree, this makes weak signals sound like S9+. The bandwidth filters work nicely too, as do the heterodyne (noise reduction TONE) filters. The neat thing about the Timewave filters is that you can use more than one of them at once. For example, on SSB, you can use noise reduction, heterodyne zapping (for getting the tuner-uppers, several at a time even), and bandwidth too...with minimal DSP-type distortion! I don't work for Timewave, by the way, just a very very satisfied customer. I think I'd like to upgrade, though, to their DSP-59+ unit, which does continuously adjustable thresholds on the filtering options.
--Randy Padawer, WA4FJF

--

Randy Padawer, P.O. Box 1167, Knoxville, TN 37901-1167 U.S.of A
Internet: ap451@yfn.ysu.edu America Online: GwRepRandy
Telephone: (615) 637-7263 Ham Radio op: WA4FJF & a groovy guy.

Date: Thu, 30 Jun 1994 00:44:02 GMT
From: rit!isc-newsserver!ultb!jdc3538@cs.rochester.edu
Subject: Who makes largest capacity nicad AA cell?
To: ham-equip@ucsd.edu

I'm looking to replace the cells in a worn-out battery pack.
Are there any nicad AA cells with a capacity of more than
600 ma-hours? And who distributes them?

Thanks...Jim N2VNO

Date: 30 Jun 1994 06:36:32 GMT
From: ihnp4.ucsd.edu!agate!kennish@network.ucsd.edu

Subject: Who makes largest capacity nicad AA cell?
To: ham-equip@ucsd.edu

In article <1994Jun30.004402.658@ulfb.isc.rit.edu>,
J.D. Cronin <jdc3538@ulfb.isc.rit.edu> wrote:
>
>I'm looking to replace the cells in a worn-out battery pack.
>Are there any nicad AA cells with a capacity of more than
>600 ma-hours? And who distributes them?
>

The current winner is:

Panasonic 900 mAh AA cell,

followed closely by:

Gold Peak GP850AA 850mAh AA cells.

BUT, both of those above are foam electrodes which have
higher internal impedance, and may not perform as well
as sintered plate electrodes under high drain (>1A) conditions.

The champ of sintered plate is:

Sanyo KR-800AAE 800 mAh cells.

Sanyo is in the process of marketing a 950 mAh foam cell.

I don't have distributors in front of me. Try
Alexander Batteries -- try the 1-800-555-1212 directory.

-Ken

Date: 30 Jun 1994 05:44:50 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!news-feed-1.peachnet.edu!umn.edu!mr.net!
tccn.com!suzie!52@network.ucsd.edu
Subject: Yaesu FT-470 Clone?
To: ham-equip@ucsd.edu

Greetings again...

Has anyone out there successfully done a clone of a 470's memory? I'm looking
for any information regarding either dumping the data to another 470, or
(preferably) building an interface to dump the memories and settings to a
PC. I've seen all of the mod sheets for it, and many people indicate that it

can be done, but I've got nothing indicating anyone has been sucessful yet.

Tnx & 73 de Jim

— — — —

Jim Henderson - W0/KD4LD0 Internet: jimh@kd4ldo.ampr.org
Crystal, Minnesota USA 52@suzie.tccn.com
NetWire Forum SysOp (NETW4X) CompuServe: 76702,1452

"OK, so the guy is cool, but...I mean own up, this is barking time, this is major lunch, this is stool approaching critical mass, this is...this is...total vocabulary failure!" - Zaphod Beeblebrox's Left Head

```
#include <disclaimer.h>
```

Date: 29 Jun 1994 23:04:47 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!agate!kennish@network.ucsd.edu
To: ham-equip@ucsd.edu

References <hamilton.772822046@BIX.com>, <STEVE.94Jun28194107@susie.vigra.com>,
<2usdrb\$1j2@agate.berkeley.edu>
Subject : Re: [Long] Battery mah measurements & W&W (Was: Opinions on batteries?)

In article <2usdrb\$1j2@agate.berkeley.edu>,
Ken A. Nishimura <kennish@kabuki.EECS.Berkeley.EDU> wrote:

 γ \succ

```
>Well, you want to stop when the cells get to 1.0V each, or 12V
^
```

>for the pack. Anything after that and you risk cell reversal.

I have just been notified that I was asleep at the wheel. The battery in question is a 10-cell (12.0V) and thus, you want to stop when it goes to 10.0V, not 12.0V. Whoops!

 γ

```
>it will get cycled. But, I would be curious to see what your
>results would be if you repeated the experiment. Go to 12.0V
          ^^^^
```

```
>only, the rest is bad for your cells.  Do what you did, but just
>integrate current over time, and not worry about the terminal voltage
>as long as it is above 12.0V.  I would guess that the second time
      ^^^^^
```

```
>you'll get more capacity.
```

Same problem. Substitute 10.0V for 12.0V.
Gotta get a new CPU for the space above the shoulders.

-Ken

p.s. for you electrochemically inclined, the reason you need to charge to such a high terminal voltage and evolve oxygen at the positive electrode to achieve full charge is that the equilibrium potential for the Ni(3+)/Ni(2+) combination is 1.33V ref. hydrogen electrode in KOH, while it only takes 1.23V to split water. So, in order to run at equilibrium, you are already getting oxygen evolution. You need an overvoltage to overcome polarization and kinetic effects.

Date: 29 Jun 1994 21:24:54 GMT
From: pendragon!lfhs2!u2k88@ames.arpa
To: ham-equip@ucsd.edu

References <CrwKwp.3CC@telemax.com>, <1994Jun27.234506.5789@pb2esac.com>,
<Cs3tMw.2Ep@telemax.com>∞
Subject : Re: 94 Ford Explorer

In article <Cs3tMw.2Ep@telemax.com> macy@telemax.com writes:
>In article <1994Jun27.234506.5789@pb2esac.com> jaminge@pb2esac.com (John Minger) writes:
>>In article <CrwKwp.3CC@telemax.com>, macy@telemax.com (Macy Hallock) writes:
>>
>>> For power, put in a pair of 8 AWG lines going straight from the battery
>>> to the rear.
>>
>>Hope you included a fuse or breaker at the battery. Things could
>>get pretty hot if those 8 AWG lines got together, or touched the
>>vehicle frame (for example, in an otherwise minor fender-bender).
>
> [SNIP.. SNIP]
>
>None of the grounds are fused.
>
>I've seen the results of vehicle electrical fires, and have
>a healthy respect for the power contained in a lead acid battery.
>

I usually fuse the ground at the battery too... The reason? If you have a battery ground wire fail (the bolt falls out..etc.) The truck tries to ground itself through the radio.. Instant smoked radio!

Steve

73's de N5WHW

Date: Thu, 30 Jun 1994 02:59:09 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!uwm.edu!mixcom.com!
kevin.jessup@network.ucsd.edu
To: ham-equip@ucsd.edu

References <2u9tnc\$ogv@apakabar.cc.columbia.edu>, <z3L2kClg10ZC066yn@kaiwan.com>,
<ZEzRo9S.brunelli_pc@delphi.com>,,
Subject : Re: Kenwood TH-78A

In <ZEzRo9S.brunelli_pc@delphi.com> brunelli_pc@delphi.com writes:

>Alfred Lee <alf@kaiwan.com> writes:

>

>>A ham equipment shop salesman told me that the TH-78A "is the best on
>>the market and there is nothing come even close to it."

Interesting. Maybe he was overstocked?? :-))

>The Standard dualies (so many...) are great rigs, rather pricey and no
>alpha-numerics. But, definitely a toss-up if bucks are not limiting
>your decision. You will be using the rig ALot, so make a good choice.

The Standards have far better intermod rejection, IMO, then any dual-band
HTs from Alinco, Yaesu or Kenwood. They also appear less suseptible to
desense.

>The Alinco seems to be serviceable, but so many owners bash them
>in these usenet forums that something MUST be up with them. Mostly
>the probs seem to be reliability and intermod rejection.

My Alinco DR600T dual-band mobile has had a few problems. Nothing
too serious though. My Alinco DJ580T has been a FLAWLESS performer.
It does have a bit of an intermod problem when connected to a mobile
whip antenna, but only in certain areas of downtown Milwaukee. I
once had a Kenwood TH28A. It was useless in ALL areas, and that
was with the duck! Terrible intermod problems. If the TH78 is
anything like the TH28, I'd avoid it. Just my \$.02. 73.

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/`- _	kevin.jessup@mixcom.com		Vote Libertarian!
{	}		
\	/		
__*	N9SQB, ARRL, Amateur Radio		Call 1-800-682-1776
	N9SQB @ WA9POV.#MKE.WI.USA.NA		for more information.

End of Ham-Equip Digest V94 #210
